INNOWATER Workshop

Food processing Industry – water use efficiency- waste water treatment- challenges in Europe and China and technology needs

Financing of innovations

Innowater tools

Meet the innowater experts in the cafe meeting- technology needs potential for partnering with European SME´s

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www.innowater.eu
The INNOWATER Partnership and China

1. SME BUSINESS SUPPORT
2. SME INTERNATIONALISATION SUPPORT
3. UNDERSTANDING END USER INNOVATION NEEDS
Challenges

Water sector
- Increasing water stress
- Decreasing water quality
- Climate change impacts

Food processing sector
- Increasing water and energy prices
- Demands for increased water use efficiency
- Demands for improved waste water treatment to protect the water quality
- Food safety regulations
## Market drivers

<table>
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<tr>
<th></th>
<th>10%</th>
<th>14.29%</th>
<th>8%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphur dioxide emissions reduction</td>
<td></td>
<td>14.29%</td>
<td>8%</td>
</tr>
<tr>
<td>Chemical Oxygen Demand (COD) reduction</td>
<td>10%</td>
<td>12.45%</td>
<td>8%</td>
</tr>
<tr>
<td>Ammonium nitrate reduction (new)</td>
<td>n/a</td>
<td>n/a</td>
<td>10%</td>
</tr>
<tr>
<td>Nitrogen oxide reduction (new)</td>
<td>n/a</td>
<td>n/a</td>
<td>10%</td>
</tr>
<tr>
<td>Five heavy metals reduction – lead, mercury, chromium, cadmium and arsenic (new)</td>
<td>n/a</td>
<td>n/a</td>
<td>15% from 2007</td>
</tr>
<tr>
<td>Water intensity (water consumed per unit of value-added industrial output) reduction</td>
<td>30%</td>
<td>37%</td>
<td>30%</td>
</tr>
<tr>
<td>Non-fossil fuels proportion of primary energy mix</td>
<td>(15% renewable energy by 2020)</td>
<td>8.3%</td>
<td>11.4%</td>
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</tbody>
</table>
”In China everything is possible but nothing is easy”

Hong Jiang- Investment Fund for Developing Country, China
Innovations

- Water use reductions (audits - good housekeeping)
- Reuse of water through (filtration)
- Recycling of used water (waste water treatment and membrane filtration)
- Replacement of water using alternative water source (rainwater, Desalinated water)

*Important to maintain food quality and safety*
Innovations

Maintaining food quality and safety

- Water treatment and removal of water safety risks (microorganisms and chemicals)
- Rapid microbial tests
- Food safety risk assessments
• Industrial parks – one water supply system and waste water treatment system
• Industrial symbiosis - waste from one industry can be a resource for another
• Present your technology needs to the Innowater team
• Present your idea for partnering for innovations with European SME’s to the Innowater team
• Try using some of the Innowater tools (in English only)
Thank you for your attention